AMS1117-3.3

P1
USB_A
VCC 1
D- 2 USB_DM
D+ 3 USB_DP
GND 4
shield 5

+5V
C1
10u
GND

VI 3 GND/ADJ VO 2
U1
GND

+3.3V
C7
10u
GND

+3.3V
R7 10k
RST
C9 0.1u
GND

R17 1k5
R1 22 DP
R4 22 DM
GND
+3.3V

+3.3V
C2 C3
0.1u 0.1u
GND

GND
C4 27p
Y1 8M
C5 27p
GND

OSC_IN
OSC_OUT

D1 LED0
R5 470
LED_G0
GND

U2
NRST 7
BOOT0 44
PD0/OSC_IN 5 OSC_IN
PD1/OSC_OUT 6 OSC_OUT
VBAT 1 +3.3V
PC13/TAMPER_RTC 2
PC14/OSC32_IN 3
PC15/OSC32_OUT 4
PB0/ADC12_IN8/TIM3_CH3 18
PB1/ADC12_IN9/TIM3_CH4 19
PB2/BOOT1 20
PB3/JTDO 39
PB4/NJTRST 40
PB5/I2C1_SMBA 41
PB6/I2C1_SCL/TIM4_CH1 42
PB7/I2C1_SDA/TIM4_CH2 43
PB8/TIM4_CH3 45 LED_G0
PB9/TIM4_CH4 46
PB10/I2C2_SCL/USART3_TX 21
PB11/I2C2_SDA/USART3_RX 22
PB12/SPI2_NSS/I2C2_SMBA/USART3_CK/TIM1_BKIN 25
PB13/SPI2_SCK/USART3_CTS/TIM1_CH1N 26
PB14/SPI2_MISO/USART3_RTS/TIM1_CH2N 27
PB15/SPI2_MOSI/TIM1_CH3N 28

+3.3V
VDD 24
VDD 36
VDD 48
VDDA 9

WKUP/USART2_CTS/ADC12_IN0/TIM2_CH1_ETR/PA0 10 D0
USART2_RTS/ADC12_IN1/TIM2_CH2/PA1 11 D1
USART2_TX/ADC12_IN2/TIM2_CH3/PA2 12 D2
USART2_RX/ADC12_IN3/TIM2_CH4/PA3 13 D3
SPI1_NSS/USART2_CK/ADC12_IN4/PA4 14 D4
SPI1_SCK/ADC12_IN5/PA5 15 D5
SPI1_MISO/ADC12_IN6/TIM3_CH1/PA6 16
SPI1_MOSI/ADC12_IN7/TIM3_CH2/PA7 17
USART1_CK/TIM1_CH1/MCO/PA8 29
USART1_TX/TIM1_CH2/PA9 30 TXD
USART1_RX/TIM1_CH3/PA10 31 RXD
USART1_CTS/CANRX/USBDM/TIM1_CH4/PA11 32 DM
USART1_RTS/CANTX/USBDP/TIM1_ETR/PA12 33 DP
JTMS/SWDIO/PA13 34 SWDIO
JTCK/SWCLK/PA14 37 SWCLK
JTDI/PA15 38

VSS 23 VSS 35 VSS 47 VSSA 8
GND

STM32F103CB

R8 22 D0_OUT
R9 22 D1_OUT
R10 22 D2_OUT
R11 22 D3_OUT
R12 22 D4_OUT
R13 22 D5_OUT

+3.3V
R18 4K7
D0_OUT

P4 CONN_01X05
+3.3V 1
SWCLK 2
GND 3
SWDIO 4
RST 5

P2 CONN_02X05
D0_OUT 1 2 D1_OUT
D2_OUT 3 4 D3_OUT
D4_OUT 5 6 D5_OUT
+3.3V 7 8
5V_OUT 9 10 GND
+5V F1 500mA

mcush designed by Peng Shulin
Sheet: /
File: usb_stick.sch
Title: Mcush tiny controller
Size: A4   Date: 2018-05-08   Rev:
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